

HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM

HMIRS Data Definitions and Codes

Prepared for:

U.S. Department of Transportation
Research and Special Programs Administration
Office of Hazardous Materials Safety
Office of Hazardous Materials Planning and Analysis
Washington, DC 20590

Prepared by:

Marasco Newton Group, Ltd.
2801 Clarendon Boulevard
Arlington, VA 22201

June 2000

Table of Contents

Introduction	1
Primary Databases	2
Hazmat	2
Hazcon	7
Hazrmk	12
Secondary Databases	13
Company	13
Comdty	14
Class	15
Contnn	16
Hazcode	17
USA	18
Additional Information	19
Sample Form	19
State Codes	20
Conversion Table	22
Multiple Report Codes	24
Hazard Class Codes	25
Label and Placard Codes	27
Transportation Modes	29
General Cause of Release	30
Miscellaneous Code Descriptions	31
Description of All Codes in Hazcode	33
Bulk Container Codes	36
Container Abbreviations and Specification Numbers	37

Introduction

The Hazardous Materials Incident Report Subsystem (HMIRS) of the Research and Special Programs Administration (RSPA) Hazardous Materials Information System was established in 1971 to fulfill the requirements of the Federal hazardous materials transportation law. Part 171 of Title 49, Code of Federal Regulations (49 CFR) contains the incident reporting requirements of carriers of hazardous materials. An unintentional release of hazardous materials meeting the criteria set forth in Section 171.16, 49 CFR, must be reported on DOT Form 5800.1. The data from the reports received are subsequently entered in the HAZMAT database. Summary statistics from this data are compiled for several DOT publications including the Secretary's Biennial Report on Hazardous Materials Transportation to Congress.

Each incident report is reviewed and edited to ensure data integrity. All reports involving fatalities or injuries are analyzed and contact is made with the reporting carrier to ensure the accuracy of the information on the HMIRS.

In order to reduce computer storage requirements, the data from the reports are encoded prior to entry. Secondary data files contain the codes and explanations for each. With the exceptions of the data files containing the codes for over 4,000 proper shipping names (COMDTY) and approximately 90,000 company names (COMPANY), all codes and descriptions are contained in this manual.

Since 1971 the HMIRS has undergone several modifications. Additional fields and code entries have been added to enhance the usefulness of the data. Significant modifications are noted in the applicable sections of this manual.

The HMIRS is maintained on a VAX Alpha 7620 which is housed at the Volpe National Transportation Systems Center and utilizes the VMS operating system with SYSTEM 1032 database management software. As of the end of 1998 there were approximately 280,000 records in the system. RSPA encourages the use of the HMIRS as part of its mission to promote the safe transportation of hazardous materials. Interested parties may request information from the HMIRS through RSPA. Government agencies may make arrangements to access the system directly.

HMIRS data files from 1993 to the present are available on the Office of Hazmat Safety Website which is located at the following address:

<http://hazmat.dot.gov>

Each year's data is available in three dBASE files. Summary statistics reports for these years are also available on this Website.

Primary Databases

Hazmat

Contains data from Form DOT F 5800.1 Hazardous Materials Incident Report, which is filed by carriers whenever there is an unintentional release of a hazardous material.

TOTAL RECORD LENGTH FOR HAZMAT DATABASE - 932

<u>NO</u>	<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1		REPORT_NUMBER	RPTNO	Text	10	Y
2		MULTIPLE_CODE	MTPL	Text	1	Y
3	1	MODE_OF_TRANSPORT	MODE	Integer	3	Y
4	1	MODE_OTHER DESC	MODEO	Text	16	
5	2	DATE_OF_INCIDENT	IDATE	Date	10	Y
6	2	TIME_OF_INCIDENT	ITIME	Time Span	5	Y
7	3	INCIDENT_CITY	ICITY	Text	25	Y
8	3	INCIDENT_COUNTY	ICOUN	Text	22	Y
9	3	INCIDENT_STATE	IST	Text	2	Y
10	3	INCIDENT_ROUTE	IROUT	Text	30	
11	4	CARRIER_ID	CARID	Text	9	Y
12	4	CARRIER_NAME	CARRI	Text	30	
13	5	CARRIER_ADDRESS	CARAD	Text	30	
14	5	CARRIER_CITY	CACIT	Text	25	
15	5	CARRIER_STATE	CARST	Text	2	Y
16	5	CARRIER_ZIP	CAZIP	Text	9	
17	6	CARRIER_REPORTING_ NUMBER	CRPNO	Text	12	
18	7	SHIPPER_ID	SHPID	Text	9	Y
19	7	SHIPPER_NAME	SHIPR	Text	30	
20	7	SHIPPER_ADDRESS	SHPAD	Text	30	
21	7	SHIPPER_CITY	SHCIT	Text	25	Y

<u>NO</u>	<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
22	7	SHIPPER_STATE	SHPST	Text	2	Y
23	7	SHIPPER_ZIP	SHZIP	Text	9	
24	8	CONSIGNEE_ID	CONID	Text	9	Y
25	8	CONSIGNEE_NAME	CONSI	Text	30	
26	8	CONSIGNEE_ADDRESS	CONAD	Text	30	
27	8	CONSIGNEE_CITY	COCIT	Text	25	
28	8	CONSIGNEE_STATE	CONST	Text	2	Y
29	8	CONSIGNEE_ZIP	COZIP	Text	9	
30		ORIGIN_SAME_AS_SHIPPER	ORSHIP	Logical	1	Y
31	9	ORIGIN_ADDRESS	ORIAD	Text	30	
32	9	ORIGIN_CITY	OCITY	Text	25	Y
33	9	ORIGIN_STATE	OST	Text	2	Y
34	9	ORIGIN_ZIP	OZIP	Text	9	
35		DESTINATION_SAME_AS_CONSIGNEE	DECON	Logical	1	Y
36	10	DESTINATION_ADDRESS	DESAD	Text	30	
37	10	DESTINATION_CITY	DCITY	Text	25	
38	10	DESTINATION_STATE	DST	Text	2	
39	10	DESTINATION_ZIP	DZIP	Text	9	
40	11	SHIPPING_PAPER	SHPNO	Text	16	
41	12	COMMODITY_CODE	CMCD	Text	5	Y
42	12	COMMODITY_SHIPPING_NAME	COMOD	Text	25	
43	13	COMMODITY_TRADE_NAME	TRADE	Text	20	
44	14	COMMODITY_CLASS	CMCL	Text	2	Y
45	15	UN_NUMBER	UNNUM	Text	6	
46	16	HAZARDOUS_SUBSTANCE	HAZSUB	Logical	1	
47	17	RQ_MET	RQMET	Logical	1	

<u>NO</u>	<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
48	18	QUANTITY_RELEASED	RQUAN	Real	9	Y
49	18	QUANTITY_RELEASED_ CODE	RCODE	Integer	1	Y
50	18	UNITS_OF_QUANT_ RELEASED	RUNIT	Text	3	Y
51	19	DEATHS	DEAD	Integer	3	Y
52	20	MAJOR_INJURIES	MJINJ	Integer	3	Y
53	21	MINOR_INJURIES	MNINJ	Integer	3	Y
54	22	NUMBER_EVACUATED	NEVAC	Integer	6	Y
55	23A	PRODUCT_LOSS	PLDAM	Integer	8	Y
56	23A	PRODUCT_LOSS_CODE	PLDCD	Text	1	Y
57	23B	CARRIER_DAMAGE	CADAM	Integer	8	Y
58	23B	CARRIER_DAMAGE_CODE	CADCD	Text	1	Y
59	23C	PUB_PRI_DAMAGE	PPDAM	Integer	8	Y
60	23C	PUB_PRI_DAMAGE_CODE	PPDCD	Text	1	Y
61	23D	DECON_DAMAGE	DCDAM	Integer	8	Y
62	23D	DECON_DAMAGE_CODE	DCDCD	Text	1	Y
63	23E	OTHER_DAMAGE	OTDAM	Integer	8	Y
64	23E	OTHER_DAMAGE_CODE	OTDCD	Text	1	Y
65		REPORT_DAMAGE	RPDAM	Integer	8	Y
66		REPORT_DAMAGE_CODE	RPDCD	Text	1	Y
67		INCIDENT_DAMAGE	DAMAG	Integer	8	Y
68		DAMAGE_CODE	DAMCD	Text	1	Y
69	24#1	RESULT_VAPOR	VAPOR	Logical	1	Y
70	24#2	RESULT_SEWER	SEWER	Logical	1	Y
71	24#3	RESULT_SPILL	SPILL	Logical	1	Y
72	24#4	RESULT_FIRE	FIRE	Logical	1	Y
73	24#5	RESULT_EXPLO	EXPLO	Logical	1	Y
74	24#6	RESULT_ENVIR	ENVIR	Logical	1	Y

<u>NO</u>	<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
75	24#7	RESULT_NONE	RNONE	Logical	1	Y
76	24#8	RESULT_OTHER	ROTH	Logical	1	Y
77	24#8	RESULT_OTHER_DESC	ROTHD	Text	16	
78	25#1	VEHICLE_CARGO	CARGO	Logical	1	
79	25#2	VEHICLE_VAN	VANTR	Logical	1	
80	25#3	VEHICLE_FLAT	FLATT	Logical	1	
81	25#4	VEHICLE_TANK_CAR	TCAR	Logical	1	
82	25#5	VEHICLE_RAIL_CAR	RCAR	Logical	1	
83	25#6	VEHICLE_TOFC	TOFC	Logical	1	
84	25#7	VEHICLE_AIRCRAFT	PLANE	Logical	1	
85	25#8	VEHICLE_BARGE	BARGE	Logical	1	
86	25#9	VEHICLE_SHIP	SHIP	Logical	1	
87	25#10	VEHICLE_OTHER	VOTH	Logical	1	
88	25#10	VEHICLE_OTHER_DESC	VOTHD	Text	16	
89	26	TRANSPORTATION_PHASE	PHASE	Integer	3	Y
90	27	LAND_USE	LUSE	Integer	3	Y
91	28	COMMUNITY_TYPE	CTYPE	Integer	3	Y
92	29	ACCIDENT_OR_DERAIL	ACCDR	Logical	1	Y
93	29A	ESTIMATED_SPEED	SPEED	Integer	3	
94	29B	HIGHWAY_TYPE	HTYPE	Integer	3	
95	29C	HIGHWAY_LANES	LANES	Integer	1	
96	Stamp	GENERAL_CAUSE	CAUSE	Integer	3	Y
97	Stamp	MISCELLANEOUS_INFO_1	MISC1	Integer	3	Y
98	Stamp	MISCELLANEOUS_INFO_2	MISC2	Integer	3	Y
99	Stamp	ATTACHMENTS	ATTACH	Logical	1	Y
100	Stamp	RECOMMENDATIONS	RECOM	Logical	1	Y
101	46	REPORTER_NAME	RNAME	Text	25	
102	48	REPORTERS_TITLE	RTITL	Text	25	

<u>NO</u>	<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
103	49	REPORTER_PHONE	PHONE	Text	12	
104	50	REPORT_DATE	RDATE	Date	10	
105	System Assigned	DATE_ADDED_TO_DATA_SE T				
106	System Assigned	DATE_OF_LAST_CHANGE	DOC	Date	10	Y
107	System Assigned	INTEGER_OF_ID	INTID	Integer	10	Y

Data Base

HAZMAT
HAZCON
HAZRMK

Attribute

RPTNO\MTPL\INTID
RPTNO\MTPL\INTID
RPTNO

Hazcon

Contains inner and outer container information from DOT F 5800.1, Hazardous Materials Incident Report, when an inner container and an outer container are involved.

TOTAL RECORD LENGTH FOR HAZCON DATABASE - 361

<u>NO</u>	<u>LOC.</u>	<u>ATTRIBUTE</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1		REPORT_NUMBER	RPTNO	Text	10	Y
2		MULTIPLE_CODE	MTPL	Text	1	Y
3	System Assigned	CONTAINER_SEQUENCE	SEQ	Integer	1	Y
4	30	TYPE_OF_CONTAINER	CTYPE	Text	8	Y
5	31	CAPACITY_CONTAINER	CCAP	Real	9	
6	31	CAPACITY_CONTAINER_CODE	CAPCD	Text	1	Y
7	31	CAPACITY_UNITS	CUNIT	Text	3	
8	32	NUMBER_FAILED	NFAIL	Integer	5	
9	32A	NUMBER_FAILED_CODE	NFLCD	Text	1	Y
10	33	NUMBER_IN_SHIPMENT	NSHIP	Integer	5	
11	33A	NUMBER_IN_SHIPMENT_CODE	NSPCD	Text	1	Y
12	35	GAUGE_OF_CONTAINER	GAUGE	Text	12	
13	36	MANUFACTURERS_ID	MFGID	Text	9	Y
14	36	MANUFACTURERS_NAME	MANUF	Text	30	
15	36	MANUFACTURERS_CITY	MCITY	Text	25	
16	36	MANUFACTURERS_STATE	MST	Text	2	Y
17	37	TANK_SERIAL_NO	TKID	Text	10	
18	38	LABEL_OR_PLACARD	LRP	Text	7	
19	39	REGISTRATION_NO	RNUM	Text	6	Y
20	39B	INSPECTION_DATE	INSP	Date	10	

<u>NO</u>	<u>LOC.</u>	<u>ATTRIBUTE</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
21	40	EXEMPTION_NO	ENUM	Text	10	Y
22	41A	VEHICLE_COLLISION	VCOLL OR F41A	Logical	1	Y
23	41B	VEHICLE_ OVERTURN	VOVER OR F41B	Logical	1	Y
24	41C	OVERLOAD_OVERFILL	OLOAD OR F41C	Logical	1	Y
25	41D	LOOSE_FITTING	LOOSE OR F41D	Logical	1	Y
26	41E	DEFECTIVE_FITTING	DEFCT OR F41E	Logical	1	Y
27	41F	DROPPED	DROPD OR F41F	Logical	1	Y
28	41G	STRUCK_RAMMED	STRCK OR RAMMD OR F41G	Logical	1	Y
29	41H	IMPROPER_LOADING	ILOAD OR F41H	Logical	1	Y
30	41I	IMPROPER_BLOCKING	BLOCK OR F41I	Logical	1	Y
31	41J	CORROSION	CORRO OR F41J	Logical	1	Y
32	41K	METAL_FATIGUE	FATIG OR F41K	Logical	1	Y
33	41L	FRICTION_RUBBING	FRICT OR F41L	Logical	1	Y
34	41M	FIRE_HEAT	FIRE OR HEAT OR F41M	Logical	1	Y
35	41N	FREEZING	FREEZ OR F41N	Logical	1	Y
36	41O	VENTING	VENT OR F41O	Logical	1	Y
37	41P	VANDALISM	VANDL OR F41P	Logical	1	Y

<u>NO</u>	<u>LOC.</u>	<u>ATTRIBUTE</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
38	41Q	INCOMPATIBLE_ MATERIAL	INCOM OR F41Q	Logical	1	Y
39	41R	CONTRIBUTING_OTHER	COTH OR F41R	Logical	1	Y
40	41R	CONTRIBUTING_ OTHER_DESC	COTHD OR F41RD	Text	16	
41	42A	OTHER_FREIGHT	FRGHT OR F42A	Logical	1	Y
41	42B	FORKLIFT	FLIFT OR F42B	Logical	1	Y
42	42C	NAIL_PROTRUSION	NAIL OR F42C	Logical	1	Y
43	42D	OTHER_VEHICLE	VEHCL OR F42D	Logical	1	Y
44	42E	WATER	WATER OR F42E	Logical	1	Y
45	42F	GROUND_FLOOR_ ROADWAY	FLOOR OR F42F	Logical	1	Y
46	42G	ROADSIDE_OBSTACLE	OBSTC OR F42G	Logical	1	Y
47	42H	NO_OBJECT	NONE OR F42H	Logical	1	Y
48	42I	OBJECT_OTHER	OOTH OR F42I	Logical	1	Y
49	42I	OBJECT_OTHER_DESC	OOTHD OR F42ID	Logical	16	
50	43A	PUNCTURED	PUNCT OR F43A	Logical	1	Y
51	43B	CRACKED	CRACK OR F43B	Logical	1	Y
52	43C	BURST_INTL_PRESSURE	BURST OR F43C	Logical	1	Y
53	43D	RIPPED	RIPPD OR F43D	Logical	1	Y
54	43E	CRUSHED	CRUSH OR F43E	Logical	1	Y

<u>NO</u>	<u>LOC.</u>	<u>ATTRIBUTE</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
55	43F	RUBBED_ABRADED	ABRAD OR F43F	Logical	1	Y
56	43G	RUPTURED	RUPTD OR F43G	Logical	1	Y
57	43H	HOW_FAILED_OTHER	HOTH OR F43H	Logical	1	Y
58	43H	HOW_FAILED_OTHER_DES C	HOTHD OR F43HD	Text	16	
59	44A	END_FORWARD	FORWD OR F44A	Logical	1	Y
60	44B	END_REAR	REAR OR F44B	Logical	1	Y
61	44C	SIDE_RIGHT	RIGHT OR F44C	Logical	1	Y
62	44D	SIDE_LEFT	LEFT OR F44D	Logical	1	Y
63	44E	TOP	TOP OR F44E	Logical	1	Y
64	44F	BOTTOM	BOTTM OR F44F	Logical	1	Y
65	44G	CENTER	CENT OR F44G	Logical	1	Y
66	44H	AREA_OTHER	AOTH OR F44H	Logical	1	Y
67	44H	AREA_OTHER_DESC	AOTHD OR F44HD	Text	16	
68	45A	PACKAGE_MATERIAL	MATRL OR F45A	Logical	1	Y
69	45B	FITTING_VALVE	VALVE OR F45B	Logical	1	Y
70	45C	CLOSURE	CLOSE OR F45C	Logical	1	Y
71	45D	CHIME	CHIME OR F45D	Logical	1	Y

<u>NO</u>	<u>LOC.</u>	<u>ATTRIBUTE</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
72	45E	WELD_SEAM	WELD OR SEAM OR F45E	Logical	1	Y
73	45F	HOSE_PIPING	HOSE OR PIPE OR F45F	Logical	1	Y
74	45G	INNER_LINING	INLIN OR F45G	Logical	1	Y
75	45H	WHAT_FAILED_OTHER	WOTH OR F45H	Logical	1	Y
76	45H	WHAT_FAILED_OTHER_D ESC	WOTHD OR F45HD	Text	16	
77	System Assigned	DATE_ADDED_TO_ DATA_BASE	DOE	Date	10	Y
78	System Assigned	DATE_OF_LAST_ CHANGE	DOC	Date	10	Y
	System Assigned	USER_OF_CHANGE	UC	Text	12	Y
80	System Assigned	DATE_OF_DELETE	DOD	Date	10	Y
81	System Assigned	USER_OF_DELETE	UD	Text	12	Y
82	System Assigned	INTEGER_OF_ID	INTID	Integer	10	Y

Data Base
HAZMAT
HAZCON
HAZRMK

Attribute
RPTNO\MTPL\INTID
RPTNO\MTPL\INTID
RPTNO

Hazrmk

Contains information from the Remarks section of DOT F 5800.1 Hazardous Materials Incident Report. Reports received prior to 1990 had the information from the remarks section entered when the following conditions existed:

- a. A death or injury occurred.
- b. Over \$50,000 in property damage was incurred.
- c. People were evacuated.
- d. The material was a hazardous waste, etiologic agent, or radioactive material.
- e. Conditions existed in which the remarks helped to clarify the report.

Reports received, beginning January 1, 1990, have all information from the remarks section entered.

TOTAL RECORD LENGTH FOR HAZRMK DATABASE - 108

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	REPORT_NUMBER	RPTNO	Text	10	Y
2	SEQUENCE_NUMBER	SEQ	Integer	3	Y
3	REMARKS	REM	Text	75	
4	DATE_OF_CHANGE	DOC	Date	10	Y
5	DATE_OF ENTRY	DOE	Date	10	Y

<u>Data Base</u>	<u>Attribute</u>
HAZMAT	RPTNO
HAZCON	RPTNO
HAZRMK	RPTNO

Secondary Databases

Company

Contain names and addresses of hazardous materials shippers, carriers, consignees, container manufacturers, and other categories of companies whether or not they have reported incidents. TOTAL RECORD LENGTH FOR COMPANY DATABASE - 155

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	COMPANY_ID_NUMBER	ID	Text	9	Y
2	COMPANY_NAME	NAME	Text	30	Y
3	STREET_ADDRESS	STR	Text	30	
4	CITY	CITY	Text	25	Y
5	STATE	ST	Text	2	Y
6	ZIP CODE	ZIP	Text	9	
7	SOURCE	SRC	Text	1	Y
8	MATERIAL_ SUPPLIER	MS	Logical	1	Y
9	CONTAINER_ MANUFACTURER	CM	Logical	1	Y
10	CONSIGNEE	CO	Logical	1	Y
11	CARRIER	CA	Logical	1	Y
12	SHIPPER	SH	Logical	1	Y
13	CYLINDER_RETESTER_REPAIR	CR	Logical	1	Y
14	PORTABLE_TANK_ TESTER	PT	Logical	1	Y
15	RECONDITIONER	RC	Logical	1	Y
16	CYLINDER_SALES	CS	Logical	1	Y
17	OTHER		Text	20	
18	DATE_OF_ENTRY	DOE	Date	10	Y
19	DATE_OF_CHANGE	DOC	Date	10	Y

NOTE: COMPANY_ID_NUMBER was added in January 1984.

Data Base

HAZMAT.DMS

HAZCON.DMS

COMPANY.DMS

Attribute

CARID, SHPID, CONID

MFGID

ID

Comdty

Contains proper shipping names of all hazardous materials listed in CFR 49, section 172.101.

TOTAL RECORD LENGTH FOR COMDTY DATABASE - 295.

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	FIELD_OF_IDENTIFICATION	ID	Integer	5	Y
2	PROPER_SHIPPING_NAME	PSN	Logical	1	Y
3	COMMODITY_CODE	CODE	Text	5	Y
4	COMMODITY_CLASS	CLASS	Text	2	Y
5	EXPLOSIVE_COMPATIBILITY	COMPAT	Text	1	Y
6	UN_NUMBER	UNNUM	Text	6	Y
7	COMMODITY_SHORT_NAME	SNAME	Text	25	Y
8	COMMODITY_LONG_NAME	LNAME	Text	207	
9	HAZARDOUS_SUBSTANCE	HAZSUB	Logical	1	Y
10	REPORTABLE_QUANTITY	RQ	Text	5	Y
11	PHYSICAL_STATE	PSTAT	Text	1	Y
12	OLD_COMMODITY_CODE	OCDE	Text	5	Y
13	OLD_CLASS_CODE	OCLC	Integer	2	Y
14	OLD_UN_NUMBER	OUNUM	Text	6	Y
15	CODE_ACTIVE	CDACT	Logical	1	Y
16	CLASS_CHANGED	CLCH	Logical	1	Y
17	POISON_BY_INHALATION	PIH	Logical	1	Y
18	DATE_OF_CHANGE	DOC	Date	10	Y
19	DATE_OF_ENTRY	DOE	Date	10	Y

<u>Data Base</u>	<u>Attribute</u>
HAZMAT.DMS	CMCD\ CMCL
COMDTY.DMS	CODE\ CLASS

Class

Contains hazard classifications of all hazard classes described in the CFR 49.

TOTAL RECORD LENGTH FOR CLASS DATABASE - 74

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	CLASSIFICATION_CODE	CLCD	Text	2	Y
2	CLASS_ABBREVIATION	CLAB	Text	7	
3	CLASSIFICATION	CLAS	Text	32	
4	HAZARD_CLASS	HZCLS	Text	25	Y
5	CFR_49_PART	RPAR	Integer	3	
6	CFR_49_SECTION	RSEC	Integer	3	
7	SUBSECTION_LETTER	LETR	Text	1	
8	PARAGRAPH_NUMBER	PARN	Integer	1	

Data Base
HAZMAT.DMS
CLASS.DMS

Attribute
CMCL
CLCD

Contnn

Contains information pertaining to containers and their specifications. This database is primarily used to map to the HAZCON database for incident reports involving a specific container type or types.

TOTAL RECORD LENGTH FOR CONTNN DATABASE - 246

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	CONTAINER_TYPE	TCON	Text	15	Y
2	INNER_CONTAINER_ONLY	INNER	Logical	1	Y
3	OUTER_CONTAINER_ONLY	OUTER	Logical	1	Y
4	EITHER_INNER_OR_OUTER	IRO	Logical	1	Y
5	BULK_OR_NONBULK	BONB	Integer	1	Y
6	CONTAINER_NAME	NAME	Text	8	Y
7	REGULATION_PART	RPAR	Integer	3	Y
8	REGULATION_SECTION	RSEC	Integer	4	Y
9	SUBSECTION_LETTER	LTR	Text	1	
10	PARAGRAPH_NUMBER	PRN	Integer	2	
11	RESTRICTION_CODE	RCD	Integer	2	Y
12	TYPE_OF_RECORD	TREC	Integer	2	Y
13	PACKAGING_DESCRIPTION	PD	Text	128	
14	TYPE_HEADING	THD	Text	32	
15	NEW_CONSTRUCTION	NEW	Integer	2	Y
16	DATE_CONSTR_CANCELD	DCC	Date	10	Y
17	DATE_USE_CANCELD	DUC	Date	10	Y
18	MAIN_MENU_CODE	MMCODE	Integer	2	Y
19	SECD_MENU_CODE	SMCODE	Integer	2	Y
20	MENU_SPEC	MSPEC	Text	18	
21	CONTAINER_USE	UCON	Integer	1	Y

Data Base
HAZCON
CONTNN

Attribute
CTYPE
NAME

Hazcode

Contains the description of mode codes, miscellaneous information codes, cause codes and additional information codes used in HAZMAT.

TOTAL RECORD LENGTH FOR HAZCODE DATABASE - 107

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	HAZCODE	CODE	Integer	3	Y
2	CODE_DESCRIPTION	CDESC	Text	65	
3	CODE_ABBREVIATION	CABBR	Text	14	
4	CODE_TYPE	CTYPE	Text	14	
5	ORIGINAL_CODE	OCODE	Integer	3	
6	YEAR_ADOPTED	YADP	Integer	4	
7	MONTH_ADOPTED	MADP	Integer	4	

NOTE: This database was created in January 1990.

<u>Data Base</u>	<u>Attribute</u>
HAZMAT.DMS	MODE\CAUSE\MISC1\MISC2\LUSE\ CTYPE\ PHASE\HTYPE
HAZCODE.DMS	CODE

USA

Contains information about the states taken from the Federal Information Processing Standard State Code (FIPS) book.

TOTAL RECORD LENGTH FOR USA DATABASE - 83

<u>NUMBER</u>	<u>ATTRIBUTE NAME</u>	<u>ABBREV.</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>KEYED</u>
1	FIPS_NUMBER	FNUM	Text	2	Y
2	COUNTY_CODE	C_CODE	Text	3	Y
3	STATE_ABBREVIATION	STATE	Text	2	Y
4	COUNTY_NAME	COUNTY	Text	22	Y
5	ZIP_CODE	ZIP	Text	5	Y
6	CITY_NAME	CITY	Text	25	Y
7	GSA_CODE		Text	4	Y
8	DATE_OF_ENTRY	DOE	Date	10	Y
9	DATE_OF_CHANGE	DOC	Date	10	Y

Data Base
HAZMAT
USA
HAZCON

Attribute
IST\SH PST\CONST\DST\OST\CARST
STATE
MST

Additional Information

Sample Form

State Codes

<u>LETTER CODE</u>	<u>STATE NAME</u>
AL	Alabama
AK	Alaska
AZ	Arizona
AR	Arkansas
CA	California
CO	Colorado
CT	Connecticut
DE	Delaware
DC	District of Columbia
FL	Florida
GA	Georgia
HI	Hawaii
ID	Idaho
IL	Illinois
IN	Indiana
IA	Iowa
KS	Kansas
KY	Kentucky
LA	Louisiana
ME	Maine
MD	Maryland
MA	Massachusetts
MI	Michigan
MN	Minnesota
MS	Mississippi
MO	Missouri

<u>LETTER CODE</u>	<u>STATE NAME</u>
--------------------	-------------------

MT	Montana
NE	Nebraska
NV	Nevada
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NY	New York
NC	North Carolina
ND	North Dakota
OH	Ohio
OK	Oklahoma
OR	Oregon
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VT	Vermont
VA	Virginia
WA	Washington
WV	West Virginia
WI	Wisconsin
WY	Wyoming
XX	State Unknown
ZZ	Foreign Country

Conversion Table

Beginning January 1984, all measurements are in GAL, LBS, CFT, uCi, mCi, and Ci for uniformity. The Conversion Table shows the means by which these converted numbers were attained from the original information.

A. Liquids

<u>CONVERSION</u>			
1 Mls	ù	.00026417	Gal
1 Oz	ù	.0078125	Gal
1 Cup	ù	.0625	Gal
1 Pt	ù	.125	Gal
1 Lbs	ù	.125	Gal
1 Ltr	ù	.26418	Gal
1 Qt	ù	.25	Gal
1 Gal	ù	1.0	Gal
1 Gli	ù	1.13625	Gal
1 Bbl	ù	42.0	Gal

B. Solids

<u>CONVERSION</u>			
1 Oz	ù	.0625	Lb
1 Pt	ù	1.0	Lb
1 Lb	ù	1.0	Lb
1 Qt	ù	2.0	Lb
1 Kgs	ù	2.2046229	Lb
1 Gal	ù	8.0	Lb
1 Ton	ù	2000.0	Lb
1 Mts	ù	2204.6229	Lb
1 Tns	ù	2240.0	Lb

C. Gas

CONVERSION

1 Gcm	ù	.00003531	Cft
1 Mls	ù	.00003531	Cft
1 Gci	ù	.005787	Cft
1 Ltr	ù	.03532	Cft
1 Pt	ù	.01671	Cft
1 Gal	ù	.13368	Cft
1 Gli	ù	.1605	Cft
1 Cft	ù	1.0	Cft
1 Qt	ù	.03342	Cft
1 Cyd	ù	27.0	Cft

D. RAM

CONVERSION

1 Ci	ù	1	Ci
1 Mci	ù	1	Mci
1 Uci	ù	1	Uci

Multiple Report Codes

MULTIPLE CODES

DESCRIPTION

A	A report number appearing once in the database with an A code, indicates an incident involving a single shipper, commodity, container type and size, and container manufacturer.
B	A report number appearing several times with codes B through U, indicates an incident involving more than one shipper, commodity, container type or size, or container manufacturer.
V	Limited quantities of hazardous materials for which a packaging exception is listed in section 172.101, col. 5(a).
W	Any hazardous material released from a hose during the normal course of loading or unloading of a tank vehicle after the internal valve has been closed and the hose has been disconnected.
X	Shipments of flammable liquids in packagings of 5 gallons or less capacity (does not include limited quantities).
Y	Shipments of electric storage batteries.
Z	Any report which does not appear to meet the reporting criteria as outlined in section 171.16.

NOTE: Codes V through Z were added in January 1977.

NOTE: As of May 1999, the V, W, X and Y multiple codes are no longer used in coding the source documents. These documents will be coded with the appropriate remaining codes.

Data Base

HAZMAT.DMS

HAZCON.DMS

Attribute

RPTNO\MTPL

RPTNO\MTPL

Hazard Class Codes

<u>CLASS CODE</u>	<u>ABBREVIATION</u>	<u>CFR49 CODE</u>	<u>HAZARD CLASS</u>	<u>DEFINITION (CFR 49)</u>
01	FORBID		Forbidden	173.21
08	ORM-D		Other Regulated Material, Class D	173.144
11	EXPLO 1	1.1	Explosive Mass Explosion Hazard	173.50
12	EXPLO 2	1.2	Explosive Projection Hazard	173.50
13	EXPLO 3	1.3	Explosive Fire Hazard	173.50
14	EXPLO 4	1.4	Explosive No Blast Hazard	173.50
15	EXPLO 5	1.5	Very Insensitive Explosive	173.50
16	EXPLO 6	1.6	Extremely Insensitive Detonating	173.50
17	EXPL.A.		Explosives, Class A	173.53
18	EXPL.B.		Explosives, Class B	173.53
19	EXPL.C.		Explosives, Class C	173.53
20	COMB L		Combustible Liquid	173.120
21	F. G.	2.1	Flammable Compressed Gas	173.115
22	NONF.G.	2.2	Nonflammable Compressed Gas	173.115
23	POI GAS	2.3	Poisonous Gas	173.115
30	F. L.	3.0	Flammable - Combustible Liquid	173.120
41	F. S.	4.1	Flammable Solid	173.124
42	SPONTAN	4.2	Spontaneously Combustible	173.124
43	DAN WET	4.3	Dangerous When Wet Material	173.124
44	F. S.		Flammable Solid (Pre 1991)	Pre-1991 173.150
51	OXIDIZR	5.1	Oxidizer	173.127
52	ORG PER	5.2	Organic Peroxide	173.128
61	POISON	6.1	Poisonous Materials	173.132
62	INF SUB	6.2	Infectious Substance (Etiologic)	173.134
65	IRR		Irritating Material	173.132

<u>CLASS CODE</u>	<u>ABBREVIATION</u>	<u>CFR49 CODE</u>	<u>HAZARD CLASS</u>	<u>DEFINITION (CFR 49)</u>
70	R.A.M.	7	Radioactive Material	173.403
80	CORROS	8	Corrosive Material	173.136
90	MISCEL	9	Miscellaneous Hazardous Material	173.140
92	ORM-A		Other Regulated Material, Class a	Pre-1991 173.140
94	ORM-B		Other Regulated Material, Class B	Pre-1991 173.140
96	ORM-C		Other Regulated Material, Class C	Pre-1991 173.140
99	ORM-E		Other Regulated Material, Class E	Pre-1991 173.140

NOTE: Reclassification of some commodities has occurred due to changes in the regulations.

Label and Placard Codes

<u>LABEL ABBR.</u>	<u>PLACARD ABBR.</u>	<u>LABEL</u>	<u>PLACARD</u>	<u>CLASS</u>
EXPL A	EXPL A	Explosives A	Explosives A	EXPL.A.
EXPL B	EXPL B	Explosives B	Explosives B	EXPL.B.
EXPL C	EXPL C	Explosives C	Explosives C	EXPL.C.
RAM I		Radioactive White-I		R.A.M.
RAM II		Radioactive II Yellow-II		R.A.M.
RAM III	RADIOAC	Radioactive III Yellow-III	Radioactive	R.A.M.
YELLOW	OXIDIZR	Oxidizer	Oxidizer	OXIDIZR
YELLOW	ORG PER	Organic Peroxide	Organic Peroxide	ORG PER
YELLOWG	OXYGEN	Oxygen	Oxygen	NONF.G.
WHITE G	CHLORIN	Chlorine	Chlorine	NONF.G.
RED GAS	FLAMGAS	Flammable Gas	Flammable Gas	F. G.
GREEN	COMPGAS	Non-flammable Gas	Non-flammable Gas	NONF.G.
POIS A	POISONG	Poison Gas	Poison	POIS A
POIS B	POISON	Poison	Poison	POIS B
IRR	DANGER	Irritant	Danger	IRR
RED	FLAM	Flammable Liquid	Flammable Liquid	F. L.
RED	FLAMSLD	Flammable Solid	Flammable Solid	F. S.
ETIO A		Infectious Substance		INF SUB
EMPTY				
WHITE	CORROS	Corrosive	Corrosive	CORROS
	FLAMWET		Flammable Solid - Dangerous When Wet	F. S
SPONCOM		Spontaneously Combustible Danger - Peligro (Cargo Aircraft Only)		
	COMBUST		Combustible	COMB L

<u>LABEL</u> <u>ABBR.</u>	<u>PLACARD</u> <u>ABBR.</u>	<u>LABEL</u>	<u>PLACARD</u>	<u>CLASS</u>
MAGNET		Magnetized Material		ORM-C
	DANGER	Danger		
DNGRWET		Dangerous When Wet		DAN WET

Transportation Modes

<u>CODE NUMBER</u>	<u>MODE ABBREVIATION</u>	<u>MODE OF TRANSPORTATION</u>
1	AIR	Air
4	H-H	Highway (For Hire)
5	H-P	Highway (Private)
6	R	Railway
7	W	Water
8	F-F	Freight Forwarder
9	OTH	Other

NOTE: The mode freight forwarder is found in data prior to 1990.

<u>Date Base</u>	<u>Attribute</u>
HAZMAT.DMS	MODE
HAZCODE.DMS	CODE

General Cause of Release

CODE	
<u>NUMBER</u>	<u>DESCRIPTION</u>
10	Human Error
20	Package failure
30	Vehicular accident/derailment
40	Other

NOTE: The above codes were added in January 1990.

<u>Data Base</u>	<u>Attribute</u>
HAZMAT.DMS	CAUSE
HZCODE.DMS	CODE

Miscellaneous Code Descriptions

<u>CODE</u>	<u>DESCRIPTION</u>
100	None
101	EPA Registration (Pesticides)
102	Bureau of Explosives Authorization
103	IAEA Registrant
104	Unknown Container Manufacturer Embossing Symbol or Name
105	Marked ICC When it Should Be DOT (Boxes, Drums, Etc.)
106	Foreign Made Container
107	Container Not in Proper Condition for Shipment
108	Non-specification Container Used When Spec Container Required
109	People Evacuated
110	Bulk Loading/unloading Container Failure
111	Bulk Loading/unloading Human Error
112	Bulk Loading/unloading Storage Tank Failure
113	Foodstuffs Aboard Vehicle with Poisons
114	Materials Sent as Baggage or in Luggage
115	Specification Container Not Authorized for Commodity
116	Grade Crossing Incident (Train-truck Collision)
117	Military or Federal Spec Equivalent to DOT Spec Container
118	Material Splashed from Tank Car
119	Chemical Waste Product
120	Incident Involving Air Carriers Pickup & Delivery Truck
121	Tank Truck/trailer Rolled over Spilling Contents
122	Radioactive Material Released
123	Radioactive Material Not Released or Contaminated
124	Radioactive Contamination Only (No Release of Material)
125	No Release/major Transportation Artery or Facility Closed

<u>CODE</u>	<u>DESCRIPTION</u>
126	No Release/operational Flight Plan of Aircraft Altered
127	No Release/people Evacuated
128	Major Transportation Artery or Facility Closed
129	Operational Flight Plan of Aircraft Altered
130	Hazardous Substance
131	Shipments Involving Mixed Modes of Transportation
132	Bulk Loading/unloading Cause Other
133	Undeclared Shipments - All Modes

Description of All Codes in Hazcode

<u>HAZCODE</u>	<u>CODE DESCRIPTION</u>
1	Air
4	Highway (For Hire)
5	Highway (Private)
6	Railway
7	Water
8	Freight Forwarder
9	Other
10	Human Error
20	Package Failure
30	Vehicular Accident/Derailment
40	Other
100	None
101	EPA Registration Number (Pesticides)
102	Bureau of Explosives Authorization
103	IAEA Registrant
104	Unknown Container Manufacturer Embossing Symbol or Name
105	Marked ICC When it Should Be DOT (Boxes, Drums, Etc.)
106	Foreign Made Container
107	Container Not in Proper Condition for Shipment
108	Non-specification Container Used When Spec Container Required
109	People Evacuated
110	Bulk Loading/Unloading Container Failure
111	Bulk Loading/Unloading Human Error
112	Bulk Loading/Unloading Storage Tank Failure
113	Foodstuffs Aboard Vehicle with Poisons
114	Material Sent as Baggage or in Luggage

<u>HAZCODE</u>	<u>CODE DESCRIPTION</u>
115	Specification Container Not Authorized for Commodity
116	Grade Crossing Incident (Train-truck Collision)
117	Military or Federal Spec Equivalent to DOT Spec Container
118	Material Splashed from Tank Car
119	Chemical Waste Product
120	Incident Involving Air Carriers Pickup & Delivery Truck
121	Tank Truck/Trailer Rolled over Spilling Contents
122	Radioactive Material Released
123	Radioactive Material Not Released or Contaminated
124	Radioactive Contamination Only (No Release of Material)
125	No Release/Major Transportation Artery or Facility Closed
126	No Release/Operational Flight Plan or Aircraft Altered
127	No Release/People Evacuated
128	Major Transportation Artery or Facility Closed
129	Operational Flight Plan or Aircraft Altered
130	Hazardous Substance
131	Shipments Involving Mixed Modes of Transportation
132	Bulk Loading/Unloading Cause Other
133	Undeclared Shipments
261	Enroute Between Origin/Destination
262	Loading
263	Unloading
264	Temporary Storage/Terminal
265	Loading/unloading (Pre-1990 Incident)
271	Industrial
272	Commercial
273	Residential
274	Agricultural

<u>HAZCODE</u>	<u>CODE DESCRIPTION</u>
275	Undeveloped
281	Urban
282	Suburban
283	Rural
291	Divided/Limited Access
292	Undivided
901	Transportation Worker (E.g. Driver,crew)
902	General Public
903	Police
904	Fire Personnel
905	Other Emergency Response Personnel
999	Information Not Reported

Bulk Container Codes

CODE	
<u>NUMBER</u>	<u>DESCRIPTION</u>
1	Package Freight (Non-Bulk)
2	Bulk Highway Container
3	Bulk Rail Container
4	Bulk Intermodal Container
5	Bulk Water Container

NOTE: The above codes were added to the container data base in OCTOBER 1979.

<u>Data Base</u>	<u>Attribute</u>
CONTNN.DMS	BONB

Container Abbreviations and Specification Numbers

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
103	YES	TANK CAR	Non-pressure
103A	YES	TANK CAR	Non-pressure
103AALW	YES	TANK CAR	Non-pressure
103AL	YES	TANK CAR	Non-pressure
103ALW	YES	TANK CAR	Non-pressure
103ANW	YES	TANK CAR	Non-pressure
103AW	YES	TANK CAR	Non-pressure
103B	YES	TANK CAR	Non-pressure
103BW	YES	TANK CAR	Non-pressure
103C	YES	TANK CAR	Non-pressure
103CAL	YES	TANK CAR	Non-pressure
103CW	YES	TANK CAR	Non-pressure
103DW	YES	TANK CAR	Non-pressure
103EW	YES	TANK CAR	Non-pressure
103W	YES	TANK CAR	Non-pressure
104	YES	TANK CAR	Non-pressure
104A	YES	TANK CAR	Non-pressure
104AW	YES	TANK CAR	Non-pressure
104W	YES	TANK CAR	Non-pressure
105	YES	TANK CAR	Pressure
105A	YES	TANK CAR	Pressure
105AALW	YES	TANK CAR	Pressure
105AF	YES	TANK CAR	Pressure
105AW	YES	TANK CAR	Pressure
105JW	YES	TANK CAR	Pressure
106A	YES	TANK CAR	Multi-unit

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
106ANCI	YES	TANK CAR	Multi-unit
106AW	YES	TANK CAR	Multi-unit
106AX	YES	TANK CAR	Multi-unit
107A	YES	TANK CAR	High Pressure
109AALW	YES	TANK CAR	Pressure
109AW	YES	TANK CAR	Pressure
110A	YES	TANK CAR	Multi-unit
110AW	YES	TANK CAR	Multi-unit
111A	YES	TANK CAR	Non-pressure
111AALW	YES	TANK CAR	Non-pressure
111AF	YES	TANK CAR	Non-pressure
111AW	YES	TANK CAR	Non-pressure
112A	YES	TANK CAR	Pressure
112AF	YES	TANK CAR	Pressure
112AW	YES	TANK CAR	Pressure
112J	YES	TANK CAR	Pressure
112JW	YES	TANK CAR	Pressure
112S	YES	TANK CAR	Pressure
112SW	YES	TANK CAR	Pressure
112T	YES	TANK CAR	Pressure
113A175W	YES	TANK CAR CRYO	Liquified Hydrogen
113A60W	YES	TANK CAR CRYO	Liquified Hydrogen
113AW	YES	TANK CAR	Liquified Hydrogen
113C120W	YES	TANK CAR CRYO	Liquified Hydrogen
113CW	YES	TANK CAR	Liquified Hydrogen
113DW	YES	TANK CAR	Liquified Hydrogen
114A	YES	TANK CAR	Pressure

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
114AW	YES	TANK CAR	Pressure
114CW			Pressure
114J	YES	TANK CAR	Pressure
114JW	YES	TANK CAR	Pressure
114S	YES	TANK CAR	Pressure
114SW	YES	TANK CAR	Pressure
114T	YES	TANK CAR	Pressure
115AALW	YES	TANK CAR	Non-pressure
115AW	YES	TANK CAR	Non-pressure
11A	YES	IBC	Metal, for Solids
11B	YES	IBC	Metal, for Solids
11C	YES	IBC	Wood with Inner Liner, for Solids
11D	YES	IBC	Plywood with Inner Liner, for Solids
11F	YES	IBC	Wood with Inner Liner, for Solids
11G	YES	IBC	Fiberboard, for Solids
11H1	YES	IBC	Plastic, for Solids
11H2	YES	IBC	Freestanding, for Solids
11HH1	YES	IBC	Plastic, for Solids
11HH2	YES	IBC	Plastic, for Solids
11N	YES	IBC	Metal, for Solids
13H1	YES	IBC	Plastic, Without Liner, for Solids
13H2	YES	IBC	Plastic with Liner, for Solids
13H3	YES	IBC	Plastic with Liner, for Solids
13H4	YES	IBC	Plastic with Liner, for Solids
13H5	YES	IBC	Plastic Film, for Solids
13L1	YES	IBC	Textile Without Liner, for Solids
13L2	YES	IBC	Textile, for Solids

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
13L3	YES	IBC	Textile with Liner, for Solids
13L4	YES	IBC	Textile with Liner, for Solids
13M1	YES	IBC	Paper, Multiwall, for Solids
13M2	YES	IBC	Paper, Multiwall, for Solids
1A1	---	DRUM METAL	Non-removable Head Steel Drum
1A2	---	DRUM METAL	Removable Head Steel Drum
1B1	---	DRUM METAL	Non-removable Head Aluminum Drum
1B2	---	DRUM METAL	Removable Head Aluminum Drum
1H1	---	DRUM NON-METAL	Non-removable Head Plastic Drum
1H2	---	DRUM NON-METAL	Removable Head Plastic Drum
1N1	---	DRUM METAL	Non-removable Head Metal Drum
1N2	---	DRUM METAL	Removable Head Metal Drum
20PF	---	RAM CONTAINER	Phenolic-foam Insulated, Metal Overpack
20WC	---	RAM CONTAINER	Wooden Protective Jacket
211AALW	YES	TANK CAR	
211AW	YES	Tank Car	
21A	YES	IBC	Metal, for Solids
21B	YES	IBC	Metal, for Solids
21H1	YES	IBC	For Solids
21H2	YES	IBC	Plastic, Freestanding, for Solids
21HH1	YES	IBC	Composite, with Plastic Liner, for Solids
21HH2	YES	IBC	Composite, with Plastic Liner, for Solids
21N	YES	IBC	Metal, for Solids
21PF	---	RAM CONTAINER	Fire and Shock Resistant, Phenolic-foam Insulated, Metal Overpack
21WC	---	RAM CONTAINER	Wooden Protective Overpack
2C1	---	BARREL/KEG WOOD	Bung Type Wooden Barrel
2C2	---	BARREL/KEG WOOD	Slack Type (Removable Head) Wooden Barrel

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
2P	---	INSIDE CONTAIN	Non-refillable Metal Containers
2Q	---	INSIDE CONTAIN	Non-refillable Metal Containers
3	---	CYLINDER	Steel Cylinder, Seamless
31A	YES	IBC	Metal, for Liquids or Solids
31B	YES	IBC	Metal, for Liquids or Solids
31H1	YES	IBC	For Liquids, When Stacked
31H2	YES	IBC	Plastic, Freestanding, for Liquids
31HH1	YES	IBC	Composite, with Plastic Liner, for Liquids
31HH2	YES	IBC	Composite, with Plastic Liner, for Liquids
31N	YES	IBC	Metal, for Liquids or Solids
39	---	CYLINDER	Non-reusable (Non-refillable) Cylinders NRC
3A	YES	CYLINDER BULK	Seamless Steel
3A1	---	JERRICAN	Non-removable Head Steel Jerrican
3A2	---	JERRICAN	Removable Head Steel Jerrican
3A480X	---	CYLINDER	Seamless Steel
3AA	---	CYLINDER	Seamless Steel, Made of Definitely Prescribed Steels
3AAX	YES	CYLINDER TRL	Seamless Steel, Made of Definitely Prescribed Steels over 1000 Pounds Water Volume
3AL	---	CYLINDER	Seamless Cylinder Made of Definitely Prescribed Aluminum Alloys
3AX	YES	CYLINDER TRL	Seamless Steel, over 1000 Pounds Water Volume
3B	---	CYLINDER	Seamless Steel
3BN	---	CYLINDER	Seamless Nickel
3C	---	CYLINDER	Seamless Steel
3D	---	CYLINDER	Seamless Steel
3E	---	CYLINDER	Seamless Steel
3H1	---	JERRICAN	Non-removable Head Plastic Jerrican
3H2	---	JERRICAN	Removable Head Plastic Jerrican

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
3HT	---	CYLINDER	Inside Containers, Seamless Steel for A/C Use
3T	---	CYLINDER	Seamless Steel
4	---	CYLINDER	Forge Welded Steel
4A	---	CYLINDER	Forged Welded Steel
4A1	---	BOX METAL	Unlined and Uncoated Steel Box
4A2	---	BOX METAL	Steel Box with Inner Liner or Coating
4AA480	---	CYLINDER	Welded Steel
4B	---	CYLINDER	Welded and Brazed Steel
4B1	---	BOX METAL	Unlined and Uncoated Aluminum Box
4B2	---	BOX METAL	Aluminum Box with Inner Liner or Coating
4B240ET	---	CYLINDER	Welded and Brazed
4B240FLW	---	CYLINDER	Welded or Welded and Brazed
4B240X	---	CYLINDER	Cylinder Without Longitudinal Seam for Pressures of 150 to 500 Pounds PSI
4BA	---	CYLINDER	Welded or Brazed Steel, Made of Definitely Prescribed Steels
4BW	---	CYLINDER	Welded Steel
4C	---	CYLINDER	Welded and Brazed Steel
4C1	---	BOX WOOD	Natural Wood Box
4C2	---	BOX WOOD	Natural Wood Box with Sift-proof Walls
4D	---	CYLINDER	Inside Containers, Welded Steel
4D	---	BOX WOOD	Plywood Box
4DA	---	CYLINDER	Inside Containers, Welded Steel for A/C Use
4DS	---	CYLINDER	Inside Containers, Welded Stainless Steel
4E	---	CYLINDER	Welded Aluminum
4F	---	BOX WOOD	Reconstituted Wood Box
4G	---	BOX FIBER	Fiberboard Box
4H1	---	BOX PLASTIC	Expanded Plastic Box

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
4H2	---	BOX PLASTIC	Solid Plastic Box
4L	---	CYLINDER	Welded, Insulated
50	YES	TANK	Steel Portable Tank
51	YES	TANK	Steel
51X	YES	TANK	Steel Portable Tank
52	YES	TANK	Aluminum or Magnesium Portable Tank
53	YES	TANK	Cylindrical Aluminum Portable Tank
56	YES	TANK	Metal
57	YES	TANK	Metal
5H1	---	BAG PLASTIC	Unlined or Non-coated Woven Plastic Bag
5H2	---	BAG PLASTIC	Sift Proof Woven Plastic Bag
5H3	---	BAG PLASTIC	Water-resistant Woven Plastic Bag
5H4	---	BAG PLASTIC	Plastic Film Bag
5L1	---	BAG CLOTH	Unlined or Non-coated Textile Bag
5L2	---	BAG CLOTH	Sift Proof Textile Bag
5L3	---	BAG CLOTH	Water-resistant Textile Bag
5M1	---	BAG PAPER	Multi-wall Paper Bag
5M2	---	BAG PAPER	Multi-wall Water-resistant Paper Bag
60	YES	TANK	Steel
6HA1	---	COMPOSITE	Plastic Receptacle Within a Protective Steel Drum
6HA2	---	COMPOSITE	Plastic Receptacle Within a Protective Steel Crate or Box
6HB1	---	COMPOSITE	Plastic Receptacle Within a Protective Aluminum Drum
6HB2	---	COMPOSITE	Plastic Receptacle Within a Protective Aluminum Crate or Box
6HC	---	COMPOSITE	Plastic Receptacle Within a Protective Wooden Box
6HD1	---	COMPOSITE	Plastic Receptacle Within a Protective Plywood Drum
6HD2	---	COMPOSITE	Plastic Receptacle Within a Protective Plywood Box
6HG1	---	COMPOSITE	Plastic Receptacle Within a Protective Fiber Drum

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
6HG2	---	COMPOSITE	Plastic Receptacle Within a Protective Fiberboard Box
6HH	---	COMPOSITE	Plastic Receptacle Within a Protective Plastic Drum
6J	---	DRUM METAL	Steel Barrels or Drums RHA
6K	---	DRUM METAL	Steel Barrels or Drums RHA
6L	---	RAM CONTAINER	Metal Packaging
6M	---	RAM CONTAINER	Metal Packaging
6PA1	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Steel Drum
6PA2	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Steel Crate or Box
6PB1	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Aluminum Drum
6PB2	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Aluminum Crate or Box
6PC	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Wooden Box
6PD1	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Plywood Drum
6PD2	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Wicker Work Hamper
6PG1	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Fiber Drum
6PG2	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Fiberboard Box
6PH1	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Expanded Plastic Packaging
6PH2	---	COMPOSITE	Glass, Porcelain or Stoneware Receptacle Within a Protective Solid Plastic Packaging
7A	---	RAM CONTAINER	General Packaging, for Type a Radioactive Materials
8	---	CYLINDER	Steel for Acetylene
8AL	---	CYLINDER	Steel for Acetylene
9	---	CYLINDER	Non-refillable Metal Containers

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
ARA-I	YES	Tank Car	
BAG CLTH	---	BAG CLOTH	Cloth or Burlap Bag (Cont1 for Solid Materials)
BAG PLS	---	BAG PLASTIC	Plastic Bag (Cont1 for Solid Materials)
BAG PPR	---	BAG PAPER	Paper Bag (Cont1 for Solid Materials)
BAGGAGE	---	OTHER	Packages or Containers Checked on Board an Aircraft by a Passenger in Addition to Luggage
BARGE	YES	OTHER	Barge (Use Only If Spill Occurred During Loading or Unloading)
BAG	BAG		Bag, No Description Given
BARREL W	---	BARREL/KEG WOOD	Wooden Barrel (Cont1 for Solid Materials)
BATTERY	---	INSIDE CONTAIN	Container for Acid Spilled from Battery
BE-27	YES	CYLINDER BULK	Cylinder, 150 to 2000 Pounds Water Volume for Rail Transport Only
BIN PORT	YES	OTHER	Portable Bin (Cont1 for Solid Materials)
BLANK	---	OTHER	Reporter Left Container Blank
BOTL	---	BOTTLE	Bottle, Plastic or Glass Not Specified, Capacity 2 Gallons or less
BOTL GLS	---	BOTTLE	Glass Bottle, Capacity 2 Gallons or less
BOTL PLS	---	BOTTLE	Plastic Bottle, Capacity 2 Gallons or less
BOX	---	BOX	Box, Wood or Fiberboard Not Specified
BOX FBR	---	BOX FIBER	Fiberboard Box or Carton
BOX MTL	---	BOX METAL	Metal Box
BOX WOOD	---	BOX WOOD	Wooden Box
CAGE	---	OTHER	Cage Made of Wooden Frame with Wire Cover (Cont2 Only)
CAN	---	CAN	Can, Other than Metal or Aluminum
CAN AERO	---	CAN	Aerosol Can (Contents under Pressure)
CAN ALUM	---	CAN	Aluminum Can
CAN FBR	---	CAN	Fiberboard Can
CAN MTL	---	CAN	Metal Can, Capacity 7 Gallons or less

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
CARBOY	---	CARBOY	Carboy, Other than Glass or Plastic or Material Unspecified, Capacity 5 Gallons or More
CARBOY G	---	CARBOY	Glass Carboy, Capacity 5 Gallons or More
CARBOY P	---	CARBOY	Plastic Carboy, Capacity 5 Gallons or More
CARTON P	---	CONTAINER	Plastic Carton or Box (Cont2 Primarily)
CONT	---	CONTAINER	Container, No Description Given (Do Not Use If at All Possible)
CONT GLS	---	INSIDE CONTAIN	Glass Container, No Capacity or Description Given
CONT LD	---	RAM CONTAINER	Lead Container Used as Shielding for Inner Container of Radioactive Materials
CONT PLS	---	INSIDE CONTAIN	Plastic Container, No Capacity or Description Given
CONT STY	---	OTHER	Molded Styrofoam Overpack for Bottles, Jugs or Carboys
CYL	---	CYLINDER	Cylinder, a Pressure Vessel for Compressed Gases
CYL MTL	---	OTHER	Cylindrical Metal Container, Not for Compressed Gases (I.E., Not a Pressure Vessel)
DRUM	---	DRUM	Drum - Fiber, Metal or Plastic, Not Specified
DRUM FBR	---	DRUM NON-METAL	Fiber Drum, Cont1 for Solids, Cont2 for Liquids
DRUM MTL	---	DRUM METAL	Metal Drum
DRUM PLS	---	DRUM NON-METAL	Plastic Drum
DRUM RBR	---	DRUM NON-METAL	Rubber Drum
FLASK ST	---	OTHER	Steel or Iron Flask for the Shipment of Mercury
HOPPER R	YES	HOPPER	Rail Hopper Car for Solid Materials Only
HOPPER T	YES	HOPPER	Highway Hopper Trailer for Solid Materials Only
ICC-27	YES	CYLINDER BULK	Cylinder, 1700 Pounds Water Volume for Rail Transport Only
IM101	YES	TANK INTERMODAL	Portable Tank
IM102	YES	TANK INTERMODAL	Portable Tank
JAR	---	JAR	Jar, Glass, Plastic or Earthenware, Not Specified
JAR GLS	---	JAR	Glass Jar
JAR PLS	---	JAR	Plastic Jar

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
JUG	---	JUG	Jug, Glass or Plastic, Not Specified, Capacity More than 2 Gallons and less than 5 Gallons
JUG GLS	---	JUG	Glass Jug, Capacity More than 2 Gallons and less than 5 Gallons
JUG PLS	---	JUG	Plastic Jug, Capacity More than 2 Gallons and less than 5 Gallons
KEG MTL	---	KEG METAL	Metal Keg
KEG WOOD	---	BARREL/KEG WOOD	Wooden Keg
LINR PLS	---	INSIDE CONTAIN	Plastic Liner for Fiber Drums and Boxes or Metal Drums Containing Liquids
LUGGAGE	---	OTHER	Passenger Luggage on Bus or Aircraft
MC201	---	OTHER	Container for Blasting Caps
MC300	YES	TANK	Cargo Tank
MC301	YES	TANK	Cargo Tank
MC302	YES	TANK	Cargo Tank
MC303	YES	TANK	Cargo Tank
MC304	YES	TANK	Cargo Tank
MC305	YES	TANK	Cargo Tank
MC306	YES	TANK	Cargo Tank
MC307	YES	TANK	Cargo Tank
MC310	YES	TANK	Cargo Tank
MC311	YES	TANK	Cargo Tank
MC312	YES	TANK	Cargo Tank
MC330	YES	TANK	Cargo Tank
MC331	YES	TANK	Cargo Tank
MC338	YES	TANK CRYO	Cargo Tank for Cryogenic Liquids
MIL ORD	---	MIL ORD	Military Ordnance, Ammunition (Including Bomb, Torpedoes, Etc.)
NONE	---	OTHER	Used on Battery Reports When Reporter Stated No Packaging Used

<u>ABBR. OR SPEC NO.</u>	<u>BULK</u>	<u>TYPE</u>	<u>CONTAINER DESCRIPTION</u>
PAIL	---	PAIL	Pail, Open Head, Capacity 10 Gallons or less
PAIL MTL	---	DRUM METAL	Metal Pail, Open Head, Capacity 10 Gallons or less
PAIL PLS	---	DRUM NON-METAL	Plastic Pail, Open Head, Capacity 10 Gallons or less
PALLET	---	OTHER	Pallet, Used Only for Battery Reports When No Other Container Given
TANK	YES	TANK	Non-portable Tank
TANK CAR	YES	TANK CAR	Railroad Tank Car
TANK PRT	YES	TANK	Portable Tank
TANK RBR	YES	TANK	Portable Rubber Tank
TANK STG	YES	TANK	Storage Tank
TANK TRK	YES	TANK	Tank Truck, Tank Mounted on Truck Chassis
TANK TRL	YES	TANK	Tank Trailer, Semi-trailer or Full Trailer (Two Axles)
TUBE	---	TUBE	Squeeze Tube
TUBE FBR	---	TUBE	Fiber Tube
TUBE GLS	---	TUBE	Glass Tube
TUBE MAL	---	TUBE	Mailing Tube, Fiberboard
TYPE A	---	RAM CONTAINER	Type a Container for Radioactive Materials
TYPE B	YES	RAM CONTAINER	Type B Container for Radioactive Materials (Includes Small Packages thru Large Casks)